

10/501333

FIG. 1

	Coating Amount (Parts by Wt.)	Increasing rate of accumulative pore volume (%)	(cc/g)	(After coating/ before coating) (%)	BET specific surface area (m ² /g)	σ /D	R	H/C	Oxidation- corrosion rate Wt%	Electrolytic solution	Discharge capacity mAh/g	Residual capacity rate (%) (Discharge capacity (-5°C)/ Discharge capacity (25°C)	Initial efficiency (%)	Irreversible capacity mAh/g	
Ex. 1	5	30.5	0.0051	28.3	2.3	0.012	0.34	< 0.01	2.96	EC/DMC	358	-	92.1	28.2	
Ex.2	2	9.3	0.0083	46.1	3.0	0.015	0.37	< 0.01	1.81	EC/DMC	358	-	90.4	38.1	
Ex.3	8	10.7	0.0060	33.3	2.5	0.0085	0.35	< 0.01	3.53	EC/DMC	354	-	91.1	34.5	
Ex.4	8	10.7	0.0060	33.3	2.5	0.0085	0.35	< 0.01	3.53	EC/PC	360	-	89.2	43.6	
Ex.5	5	11.5	0.0083	29.5	3.1	0.011	0.34	< 0.01	2.84	EC/DMC	360	-	93.2	26.3	
Ex.6	5	15.3	0.0055	20.9	1.6	0.008	0.34	0.2	2.77	EC/DMC	365	-	93.4	25.9	
Ex.7	5	30.5	0.0051	28.3	2.3	0.012	0.34	< 0.01	2.96	EC/DEC	364 (25°C)	311 (-5°C)	93.3 (25°C)	26.0 (25°C)	71.8 (-5°C)
Compara. Ex. 1	1	0.2	0.0135	75.0	3.7	0.018	0.20	< 0.01	0.13	EC/DMC	357	-	87.4	51.3	
Compara. Ex. 2	23	-13.2	0.0055	30.6	1.7	0.007	0.51	< 0.01	19.9	EC/DMC	340	-	90.8	37.2	
Compara. Ex. 3	5	17.4	0.0050	27.8	2.6	0.012	0.47	0.02	1.00	EC/DMC	361	-	85.2	62.5	
Compara. Ex. 4	5	21.4	0.0063	35.0	2.4	0.012	0.12	< 0.01	0.13	EC/DMC	357	-	87.6	50.4	
Compara. Ex. 5	5	21.4	0.0063	35.0	2.4	0.012	0.12	< 0.01	0.13	EC/PC	321	-	20.8	1,222.3	
Compara. Ex. 6	5	21.8	0.0202	23.2	7.6	0.032	0.31	< 0.01	2.13	EC/DMC	350	-	80.0	87.5	
Compara. Ex. 7	0	-	0.0180	-	5.4	0.014	0.18	< 0.01	0.26	EC/PC	361	-	82.2	78.2	
Compara. Ex. 8	0	-	0.0180	-	5.4	0.014	0.18	< 0.01	0.26	EC/DEC	365 (25°C)	246 (-5°C)	91.9 (25°C)	32.2 (25°C)	154.6 (-5°C)